AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application.

1. (original) A method to provide for evaluating expressions, comprising:

receiving code for a program, said code includes one or more expressions and one or

more markers that specify when said one or more expressions should be evaluated during

execution of said program; and

automatically providing additional functionality to said code for said program, said

additional functionality evaluates said one or more expressions during execution of said program

at one or more times specified by said one or more markers.

2. (original) A method according to claim 1, wherein:

said one or more markers specify when said one or more expressions should be evaluated

during execution of said program independent from a context of where said expressions are used.

3. (original) A method according to claim 1, wherein:

said markers can indicate that a particular expression should be evaluated immediately,

once or always.

4. (previously presented) A method according to claim 3, wherein:

failure of a marker to indicate that a particular expression should be evaluated

immediately or once defaults to an indication indicating that said particular expression should be

evaluated always.

5. (previously presented) A method according to claim 1, wherein:

said one or more expressions are constraints for variables; and

- 2 -

said step of automatically providing additional functionality to said code includes adding code that creates an object for each constraint, adds functions to said object that set said variables, and adds functions that set dependencies for said expressions.

6. (original) A method according to claim 1, wherein:

said code for said program is XML code.

7. (original) A method according to claim 1, wherein:

said step of automatically providing additional functionality to said code includes compiling said code.

8. (original) A method according to claim 1, further comprising:

receiving a request for content via a network;

transmitting said code with said additional functionality to a client via said network; and

executing said code with said additional functionality at said client.

9. (original) One or more processor readable storage devices having processor readable code embodied on said processor readable storage devices, said processor readable code

for programming one or more processors to perform a method to provide for evaluating

expressions, said method comprising:

accessing code for a program, said code includes one or more expressions and one or

more markers that specify when said one or more expressions should be evaluated during

execution of said program; and

automatically providing for an evaluation of said one or more expressions during

execution of said program at one or more times specified by said one or more markers.

10. (original) One or more processor readable storage devices according to claim 9,

- 3 -

wherein:

said one or more markers specify when said one or more expressions should be evaluated

during execution of said program independent from a context of where said expressions are used.

11. (original) One or more processor readable storage devices according to claim 9,

wherein:

said markers can indicate that a particular expression should be evaluated immediately,

once or always.

12. (original) One or more processor readable storage devices according to claim 9,

wherein:

said step of automatically providing for an evaluation includes compiling said code.

13. (original) A method to provide for evaluating expressions, comprising:

receiving code for a program, said code includes one or more expressions and one or

more markers that specify when said one or more expressions should be evaluated during

execution of said program; and

evaluating said one or more expressions during execution of said program at times

specified by said one or more markers.

14. (original) A method according to claim 13, wherein:

said one or more markers specify when said one or more expressions should be evaluated

during execution of said program independent from a context of where said expressions are used.

15. (original) A method according to claim 13, wherein:

said markers can indicate that a particular expression should be evaluated immediately,

once or always.

16. (original) A method according to claim 13, wherein:

said code for said program is XML source code.

- 4 -

17. (original) A method according to claim 13, wherein:

said code for said program is object code.

18. (original) A method to provide for evaluating expressions, comprising:

accessing code that includes an expression defining a first variable, said expression is dependent on a changeable item; and

compiling said code, said step of compiling said code adds additional functionality to said code, said additional functionality evaluates said expression when said item changes and updates said first variable.

19. (original) A method according to claim 18, wherein:

said expression is part of a constraint for said first variable;

said step of compiling includes creating an object for said constraint, adding a first function to said object that sets said first variable, determining dependency of said expression and adding a second function for said dependency.

20. (original) A method according to claim 19, wherein:

said additional functionality includes code that adds said first function to an object for said first variable and code that provides a pointer to said first function to an object for said changeable item to be called by said object for said changeable item when said changeable item changes.

21. (original) A method according to claim 18, wherein:

said code includes a marker for said expression, said marker specifies when said expression should be evaluated during execution of said code.

22. (original) One or more processor readable storage devices having processor readable code embodied on said processor readable storage devices, said processor readable code for programming one or more processors to perform a method to provide for evaluation of

- 5 -

expressions, said processor readable code comprising:

preexisting functionality that evaluates expressions when a dependency changes and updates a variable based on said expression;

code that accesses first code, said first code includes a first expression defining a first variable, said first expression is dependent on a first dependency; and

code that combines said preexisting functionality with said first code so that when said first code is executed said first variable is updated by said first expression when said first dependency changes.

23. (original) A method according to claim 22, wherein:

said first expression is part of a constraint for said first variable; and

said code that combines said preexisting functionality with said first code creates an object for said constraint, adds a first function to said object that sets said first variable, determines dependency of said first expression and adds a second function for said dependency to said object.

24. (original) A method according to claim 22, wherein:

said preexisting functionality includes code that adds said first function to an object for said first variable and code that provides a pointer to said first function to an object for said first dependency to be called by said object for said first dependency when said first dependency changes.

25. (original) A method according to claim 22, wherein:

said first code includes a marker for said first expression, said marker specifies when said first expression should be evaluated during execution of said first code.

26. (original) A method to provide for evaluating expressions, comprising:

receiving code that includes an expression defining a first variable, said expression is dependent on a changeable item; and

automatically providing additional functionality to said code, said additional functionality evaluates said expression when said item changes and updates said first variable.

27. (original) A method according to claim 26, wherein:

said expression is part of a constraint for said first variable; and

said step of automatically providing includes creating an object for said constraint, adding a first function to said object that sets said first variable, determining dependency of said expression and adding a second function for said dependency to said object.

28. (original) A method according to claim 27, wherein:

said additional functionality includes code that adds said first function to an object for said first variable and code that provides a pointer to said first function to an object for said changeable item to be called by said object for said changeable item when said changeable item changes.

29. (original) A method according to claim 26, wherein:

said code includes a marker for said expression, said marker specifies when said expression should be evaluated during execution of said code.

30. (original) A method according to claim 26, further comprising:

requesting said code by an Internet client;

transmitting said code with said additional functionality to said Internet client after said step of automatically providing; and

executing said code with said additional functionality using said Internet client.

31. (original) One or more processor readable storage devices having processor readable code embodied on said processor readable storage devices, said processor readable code for programming one or more processors to perform a method to provide for evaluating expressions, said method comprising:

- 7 -

accessing code that includes an expression defining a first variable, said expression is

dependent on a changeable item; and

automatically providing preexisting additional functionality to said code, said preexisting

additional functionality evaluates said expression when said item changes and updates said first

variable.

32. (original) One or more processor readable storage devices according to claim 31,

wherein:

said expression is part of a constraint for said first variable; and

said step of automatically providing includes creating an object for said constraint,

adding a first function to said object that sets said first variable, determining dependency of said

expression and adding a second function for said dependency to said object.

33. (original) One or more processor readable storage devices according to claim 32,

wherein:

said additional functionality includes code that adds said first function to an object for

said first variable and code that provides a pointer to said first function to an object for said

changeable item to be called by said object for said changeable item when said changeable item

changes.

34. (original) One or more processor readable storage devices according to claim 31,

wherein:

said code includes a marker for said expression, said marker specifies when said

expression should be evaluated during execution of said code.

35. (original) One or more processor readable storage devices according to claim 31,

-8-

wherein:

said preexisting additional functionality prevents circular evaluation.

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36. (original) An apparatus that provides for evaluation of expressions, comprising: a processor readable storage device; and

one or more processors in communication with said processor readable storage device, said one or more processors perform a method comprising the steps of:

accessing code that includes an expression defining a first variable, said expression is dependent on a changeable item, and

automatically providing preexisting additional functionality to said code, said preexisting additional functionality evaluates said expression when said item changes and updates said first variable.

37. (original) An apparatus according to claim 36, wherein:

said expression is part of a constraint for said first variable;

said step of automatically providing includes creating an object for said constraint, adding a first function to said object that sets said first variable, determining dependency of said expression and adding a second function for said dependency to said object; and

said additional functionality includes code that adds said first function to an object for said first variable and code that provides a pointer to said first function to an object for said changeable item to be called by said object for said changeable item when said changeable item changes.

-9-